MyOcean Information System – WP2.3 –

How to register or update product and servers metadata in the MyOcean catalogue

Reference: MYO-MIS-UMAN-Product Metadata Editor User Manual

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CHANGE RECORD

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1A	10/09/2010	All	Update for myOcean V1, intermediate version	T. Loubrieu	L. Crosnier, T. Jolibois
1B	15/09/2010		First candidate V1	T. Loubrieu	L. Crosnier, T. Jolibois, R. De Dianous
1C	21/09/2010		Reviewed V1 version	T. Loubrieu	
1D	23/02/2011		Reviewed before stream 2	T. Loubrieu K. Cordier A. Bonnat	

APPLICABLE AND REFERENCE DOCUMENTS

Applicable Documents

	Ref	Title	Date / Issue

Reference Documents

	Ref	Title	Date / Issue
DR 1	MYO-TOP-EISD	External Interfaces Requirements Document	September 2010 1.2
DR 2	-	V1_EPST_External_Product_Spec_Table	07 Sept 2010
DR 3	-	IPST_Intermediate_Product_Spec_Table-CDKP version	07 Sept 2010
DR4	MYO-TOP-OPM	Operations Processes Manual for V1	28/07/2010 v2.0

1.INTRODUCTION

The present document is a tutorial for the product managers in order to create or update your product and server description sheet in the MyOcean catalogue and Product Data Base.

This work is done through web forms provided by WP2.3 at the following address :

http://www.ifremer.fr/camiif-forms/MYOCEAN/index.html

Those web forms allow you creating or updating a ISO19139 XML product or server description file on your own.

2.PROCEDURE REMINDER

1.1.Actors

The actors of the catalogue management are :

- Product managers at Production Unit leve or Production centre level.
- MIS Product Manager (operation.mis@myocean.eu.org).
- WP17 Top Level Product Manager (catalogue-manager@myocean.eu.org).

Note that for each product specification, product line or server in the catalogue, we need inputs from one and only one person (e.g. one product manager per product. The same product manager can deal with several products.). Please make sure to organize so that we do not get cross-information from several people for the same product.

1.2.Work flows

The update of the catalogue by product managers is embedded in an overall product management work flow (detailed in the Top level OPM. See DR4). We will remind this work flow below. Keep in mind that steps below number (1, 2, 3, 5) are prerequisite for steps (4, 6).

1. [DELAYED] Describe the external upstream and validation **products lines** which are listed in the EISD (**processed outside MyOcean**) should be described by the PC or PU managers. The descriptions are validated by the WP17 Top Level Product Manager.
2. Describe the **servers** or dissemination systems (ftp, opendap, ogc/wms, mis-gateway, others...) which are used to disseminate the datasets related to the product specification. These must be registered by the PC or PU Product Managers. The descriptions are validated by the MIS Product Manager.
3. The **product lines** which are listed in the EPST (**external** products lines) must be described by the PC or PU product manager. The descriptions are validated by the WP17 Top Level Product manager and then sent to the MIS Product Manager.

4. The **product specification** which are listed in the EPST (**external** products specifications) must be described by the PU product managers. The descriptions are validated by the WP17 Top Level Product Manager and then sent to MIS Product Manager..
5. The **product lines** which are listed in the IPST (**intermediate** products lines) must be described by the PC or PU Product Manager. The descriptions are validated by the WP17 Top Level Product Manager and then sent to MIS Product Manager.
6. The **product specifications** which are listed in the IPST (**intermediate** products specifications) must be described by the PC or PU Product Managers. The descriptions are validated by the WP17 Top Level Product Manager and then sent to MIS Product Manager.

Hence, each PC or PU Product Manager has to follow steps 1 to 6 below:

1. [DELAYED] Describe the external upstream product lines from EISD
2. Describe the servers
3. Describe the product lines from EPST
4. Describe the product specifications from EPST
5. Describe the product line from IPST
6. Describe the product specifications from IPST

The first steps (1, 2, 3, 5) are prerequisite for the product specification edition (4, 6).

3.PRINCIPLES, TOOLS

1.3.Metadata creation

In order to create or update metadata, web forms are available at: http://www.ifremer.fr/camiif-forms/MYOCEAN/

Servers, Product Lines and Product Specification can be created or updated.

The newly created or updated description will be downloaded as a standard XML ISO19139 format compliant with the UE INSPIRE directive and sent to WP17 Top Level Product Manager catalogue-manager@myocean.eu.org.

1.4.Metadata validation/update

During the validation process, any product manager can re-load the XML 19139 descriptions and update and preview it through the metadata editor wizard.

When the metadata is validated as required by the work flow described in 1.2, the MIS product manager will load the metadata in the catalogue in an integration environment (sandbox).

After the overall validation in the sandbox environment, the metadata are published in the production environment (external catalogue or intermediate product data base).

2.USABILITY LIMITATIONS

The forms must be used with **firefox**. They have not been tested with Microsoft IE or any other web browser and may have unexpected behaviours with these alternate web browsers.

Only one item (one product specification, one product line, one server) **can be edited at once** by one user. The multi-edition is not managed yet and you must avoid it as it will unpredictably merged the information of your item descriptions.

3.DETAILED MANUAL

3.1.Describe a server

3.1.1.Update a server description

If the description of your server is already available, you can edit its description, in the metadata editor wizard. If your server description is not available yet you can directly jump to the next step.

You can load a description which has been previously registered in the catalogue. You can choose it from the its code and the date when the description has been committed (1a). Then click on NEXT (1b).

You can load a description from a local ISO19139 description (2a). Then click on NEXT (2b).

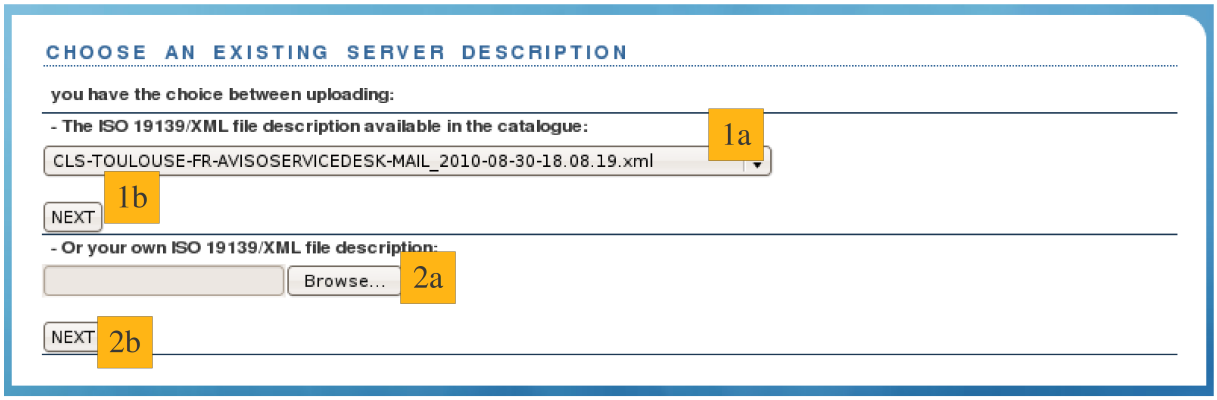

Illustration 1: update a server description

3.1.2.Describe the server

The server description is divided into 3 parts which are : reference information, description, update.

Click on v (1) to deploy a part.

Click on ^ (2) to close a part.

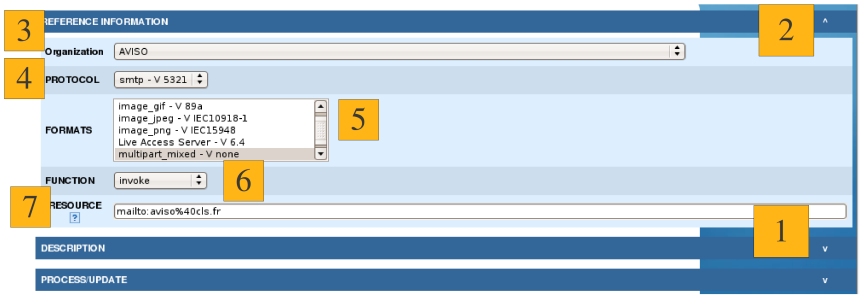

Illustration 2: Describe a server

3.1.2.1.3.1.2.1.Reference information

Organization (3) : select the operator of the server. The operator is the organization which hosts and maintains the server.

Protocol (4) : select the protocol in which your server communicates.

Formats (5) : select the formats provided by your server. Several formats can be selected.

Function (6) : an INSPIRE service types which describes the purpose of the server. Most common service types are 'download', 'view', ...

Resource (7) : the accurate URL of the described server. This must be the root URL of the server. The relative path to your datasets will be described later, with the product specification description.

For example :

Subsetter download service : http://web-qt.cls.fr/mfcglo-mercator-gateway-servlet/Motu

Opendap service : http://gnoodap.bo.ingv.it/thredds/dodsC/

FTP service : ftp://mfs.bo.ingv.it

Detailed examples for the usual MyOcean Servers are given in annexe 4.

3.1.2.2.Description

Service ID (1) : The code used to name the server. The naming rule for the code is :

<ORGANIZATION>-<CITY>-<COUNTRY>-<NAME>-<PROTOCOL>

Where :

<ORGANIZATION> is the organization which hosts and maintain the server. In upper case letter, codes adapted from MyOcean DOW document. See list in annex 5.

<CITY> is the city where the server is physically located (e.g. in the premises of the organization). in upper case letter, in national language, with special characters (space, ') replaced with '_'. For example : BREST, LA_SPEZIA, ...

<COUNTRY> is the ISO3166-1 code of the country in which the server is physically located. Same as internet DNS names national suffixes (http://www.obs.coe.int/about/iso_3166.html).

<NAME> is a free name that you use to identify internally your server, e.g. PUBLIC for the FTP server at IFREMER BREST, you may use the DNS name of your server (e.g. ILETUDY in iletudy.ifremer.fr)...

<PROTOCOL> is a type of the server. The protocol codes are listed in annex.

Service Title (2) is the label of the server.

Overview (3) is the description of the server (why it is set up ?). The length of the server overview should not exceed 70 words.

Use limitation (4) is the way the server should used (nominal/backup, number of simultaneous connections...).

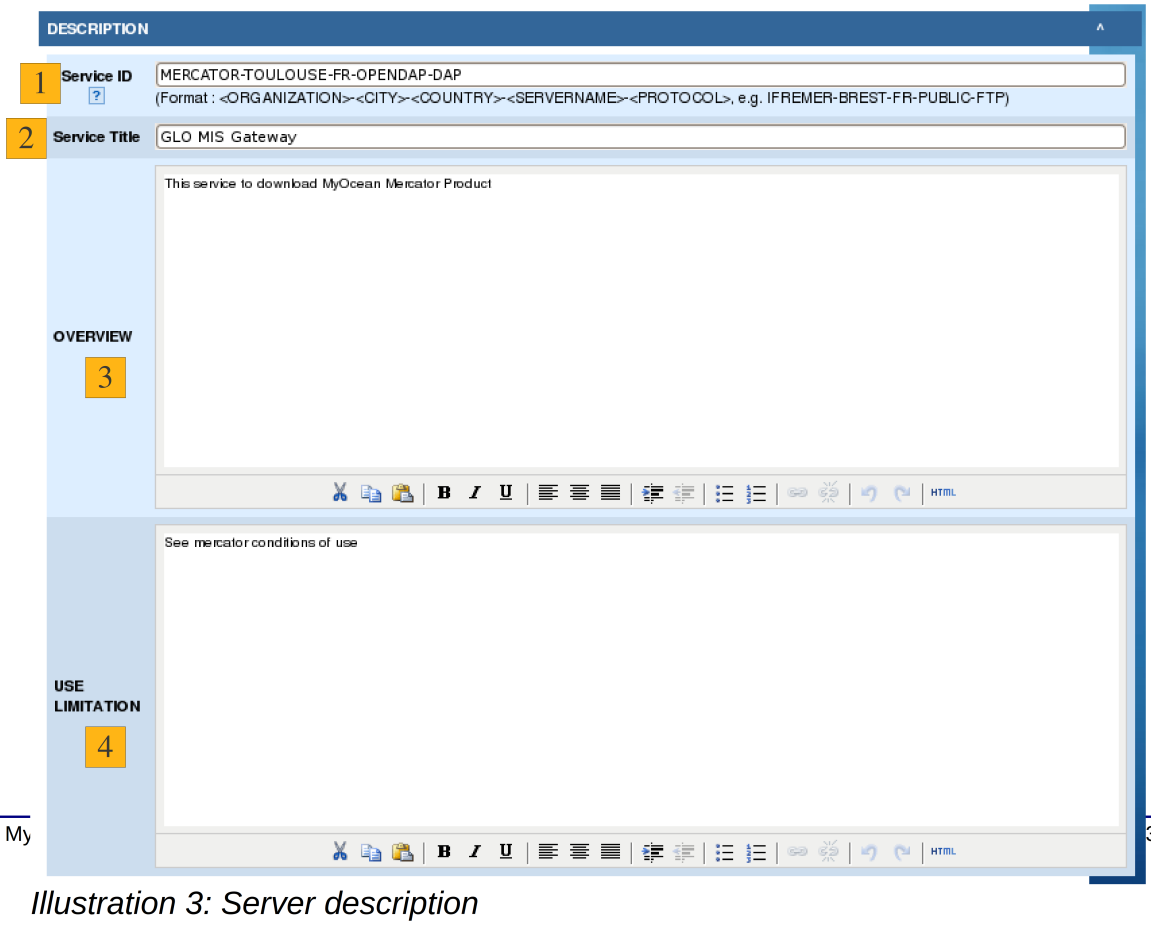

Illustration 3: Server description

3.1.2.3.Maintenance

Update frequency (1) indicates how often new datasets are published on the servers.

Illustration 4: terminate the server description, update frequency for the server

When the service description is completed, click on NEXT (2). Note that NEXT validates your form.

3.1.3.Save and preview the server description

At last you can preview the server description (1).

You must save the XML description file locally (2).

You can store the description file locally if you want to update it later or you can send it to the MIS Product Manager (email : operation.mis@myocean.eu.org) so that your server is registered in the catalogue and available as a dissemination systems for the product specification. The validation and registration process is a few days long.

Illustration 5: preview and download the server description

3.2. Describe a product line

3.2.1. Update a product line description

If the description of your product line is already available, you can edit its description, in the metadata editor wizard. If your product line description is not available yet you can directly jump to the next step.

You can load a description which has been previously registered in the catalogue. You can choose it from the its code and the date when the description has been committed (1a). Then click on NEXT (1b).

You can load a description from a local ISO19139 description (2a). Then click on NEXT (2b).

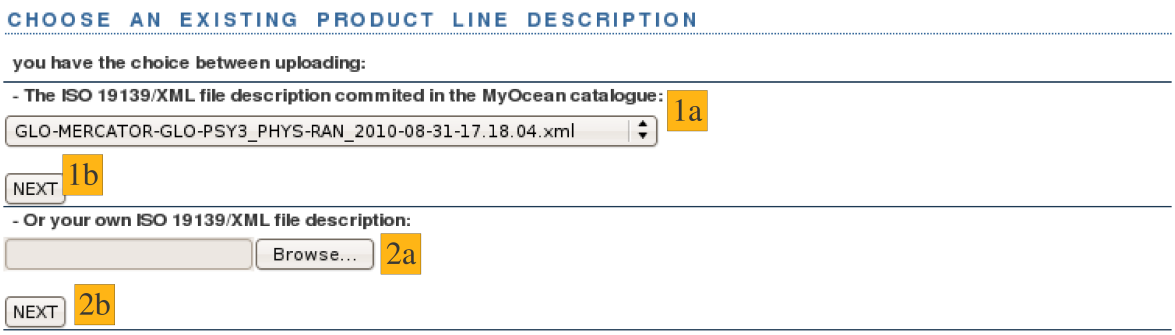

Illustration 6: Update a product line description

3.2.2.Choose responsible organizations

You need to choose among the proposed lists:

(1) the product originator which is the production unit (PU). Choose one then confirm with 'select'.

(2) The product custodian which is the production centre (PC). Choose one then confirm with 'select'.

When the responsible organizations have been selected you can click one Next (3).

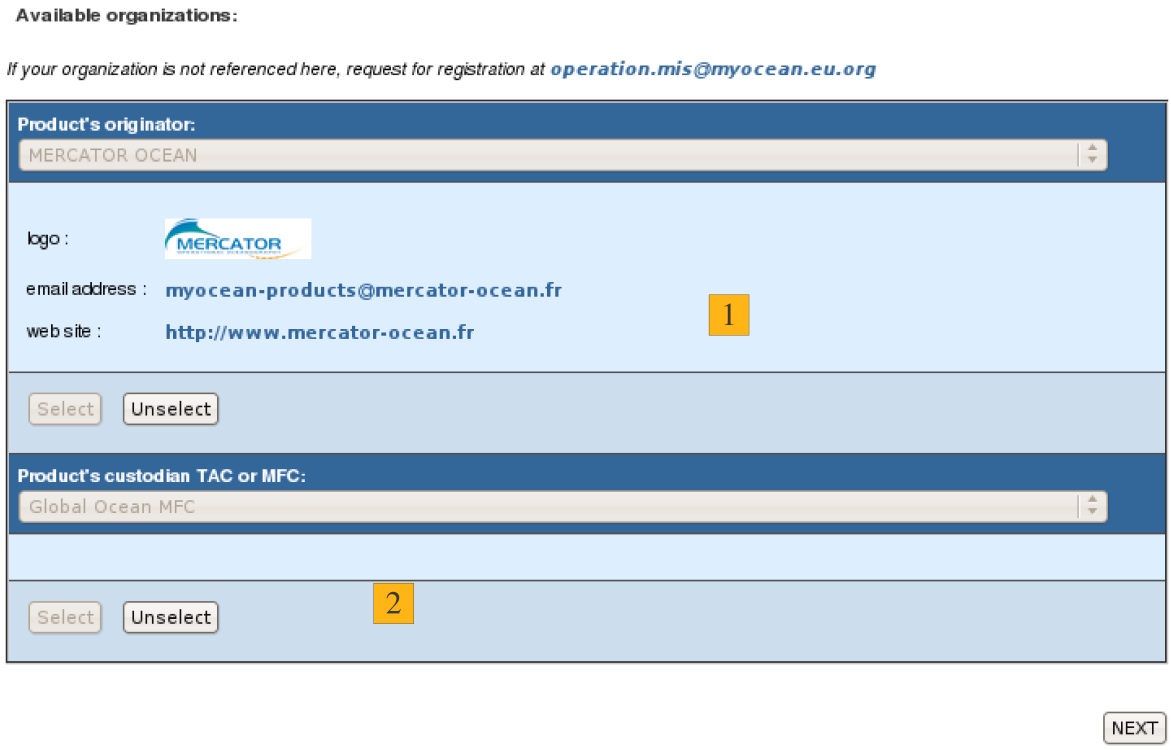

Illustration 7: choose responsible organization for a product line

3.2.3.Create or update a Product line description

The description is divided into two parts which are (1) general information about the product line and (2) the description of the product line.

You can click on the blue bars to deploy/close each part.

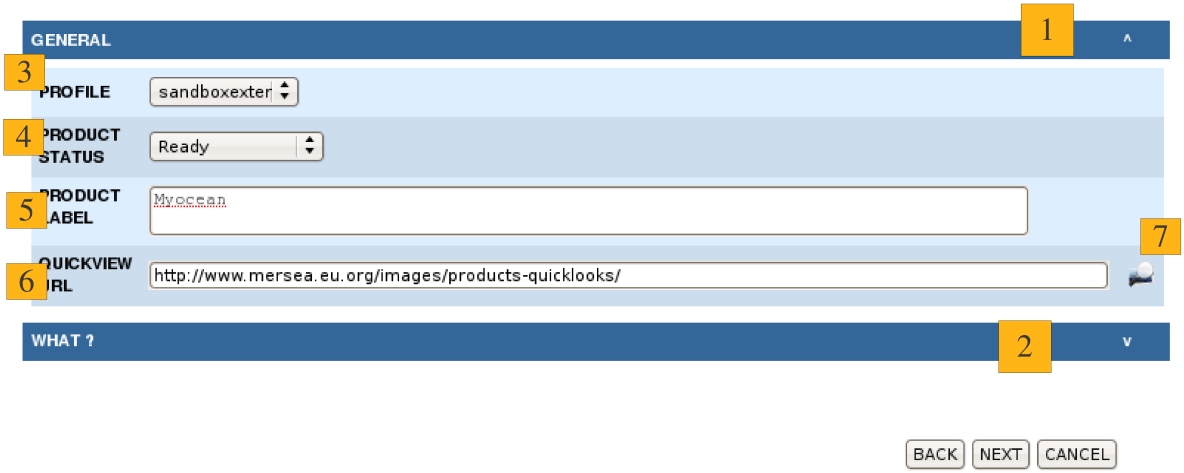

Illustration 8: product line description

3.2.3.1.General description

(3) **Profile** : if the product line is dedicated to the external catalogue, then choose sandboxexter (which is the working copy of the external catalogue), otherwise choose 'sandboxinter' (which is the working copy of the intermediate product catalogue).

(4) **Product status** : depending on the status of the production of the product line (ie the 'best' status of one the product specification which is part of this product line), choose the status of your product line. If required, the status may be updated later by the MIS metadata managers or the MyOcean product manager.

(5) **Product label** : write a short label of your product line. For example : “Arctic Ocean Physics Analysis and Forecast”. The label must be independent of the organization.

(6) **Preview URL** : you must choose a preview picture which will be displayed with the metadata of the product line.

You can use the icon (7) to choose your preview.

Choose a preview

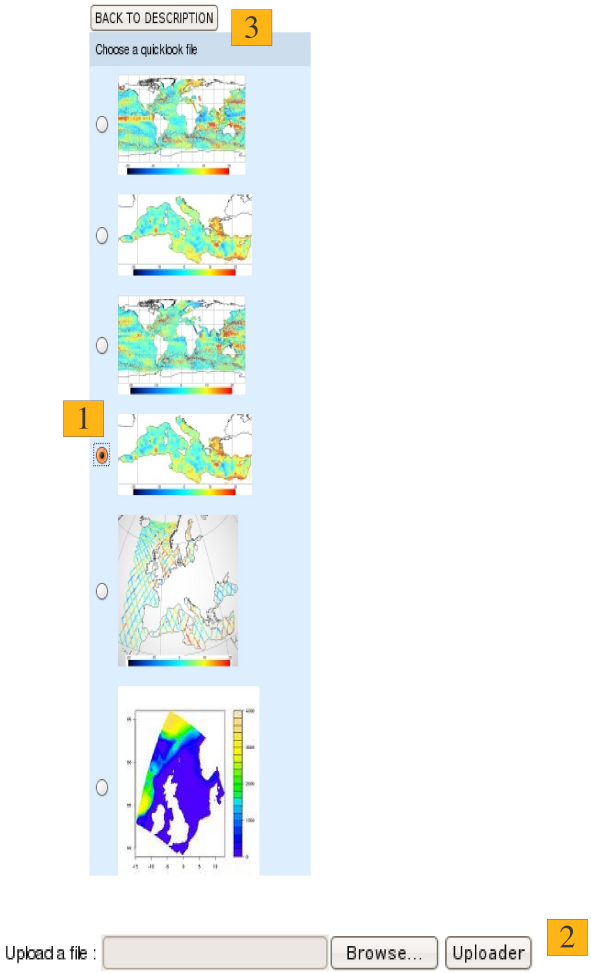

Illustration 9: upload/choose a preview

From the preview browser you can :

(1) choose among available preview the one related to your product.

(2) Upload a new preview from you local disk. Then you'll need to choose the newly uploaded quicklook with (1).

At last you can go back to your product description with the button 'BACK TO DESCRIPTION' (3).

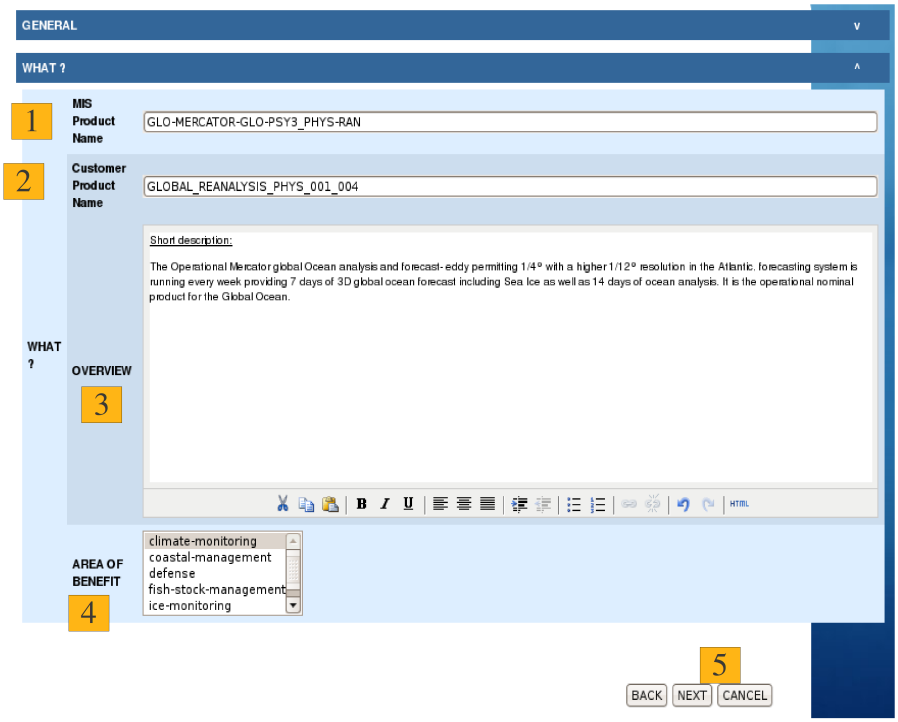

Illustration 10: product line, details

3.2.3.2.Product line description, What ?

(1) The MIS product line name must be as given in the EPST file.

(2) The customer product line name must be as given in the EPST file.

(3) The product line should be described here. For front-end layout homogeneity purpose the length of the description should be between 20 and 100 words.

(4) The areas of benefit to which the current product line are dedicated must be chosen here. Multiple areas of benefit can be selected at the same time (use Ctrl or Shift keys).

(5) To VALIDATE your form and go the next one, click on NEXT.

3.2.4.Save and preview the product line description

At last you can preview the product line description (1).

You must save the XML description file locally (2).

Illustration 11: preview and download the product line description

Then you store the description locally if you want to update it or you can send it either to the Production Centre product manager (if your are a Production Unit product manager) or to the WP17 Top Level product manager (if your are a product centre product manager. Then your product line will be validated and registered in the catalogue and made available as a product line in which product specifications can be embedded.

The email of the main product managers are given in annex 7.

3.3. Describe a product specification

3.3.1. Update an existing product specification

If the description of your product specification is already available, you can edit its description, in the metadata editor wizard. If your product line description is not available yet you can directly jump to the next step.

You can load a description which has been previously committed in the catalogue. You can choose it from the its code and the date when the description has been committed (1a). Then click on NEXT (1b).

You can load a description from a local ISO19139 description (2a). Then click on NEXT (2b).

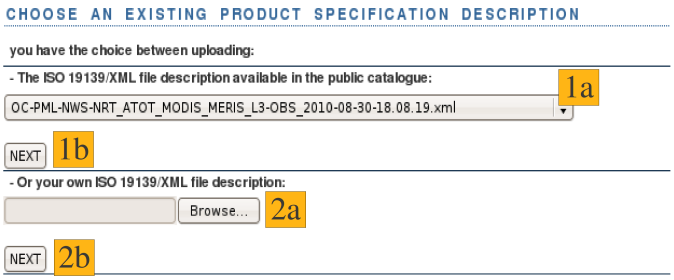

Illustration 12: Update a product specification description

3.3.2.Select reference information

Unless required reference information is available in the central system, it is useless to go on in the product specification description. This reference information is composed with :

- responsible organisations (production unit, product centre).
- servers which gives access to the product specification datasets.
- Product line to which the product specification belong.

3.3.2.1.Responsible organisations

The product originator is the production unit. Select yours in the list (1) and click on select (2) to validate.

The product custodian is the production centre. Select yours in the list (3) and click on select (4) to validate.

You can click on 'unselect' if you want to change a responsible organisation.

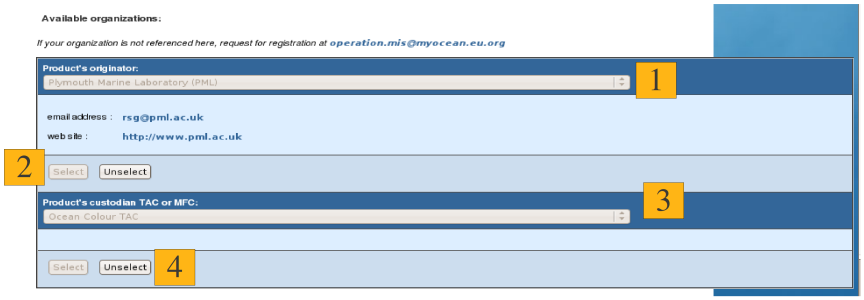

Illustration 13: product specification's responsible organizations

3.3.2.2.Servers

Choose the servers which give access to the product specification's datasets.

If the same server is used for giving access to different type of datasets (e.g. if you use the same ftp server for : 1. full resolution on a specific area, 2. downgraded resolution on the full area, then you must add the same ftp server twice. The details about each datasets will have to be detailed later.

For example:

ftp://ftpmarine.jrc.ec.europa.eu/chl/modisa/sarc

ftp://ftpmarine.jrc.ec.europa.eu/chl/modisa/balt

ftp://ftpmarine.jrc.ec.europa.eu/chl/modisa/nadr

ftp://ftpmarine.jrc.ec.europa.eu/chl/modisa/nase

Those four ftp URL allow to access to the JRC-EUR-MODISCHL-OBS product's data. You need to select four times the "ftp://ftpmarine.jrc.ec.europa.eu" dissemination service.

Select your server among those available in the system (1), then click on 'select' (2). This adds the server in the list of the product accesses for the product specification (3).

You can remove any of the product access by clicking on 'unselect this one' (4).

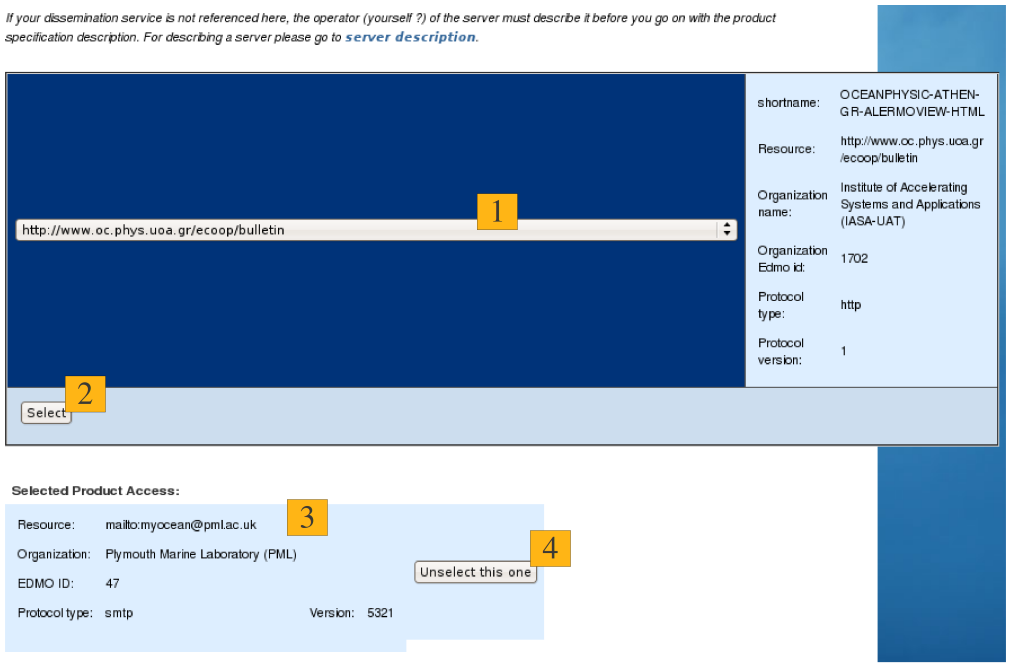

Illustration 14: define the access points for your product specification

If the server you need is not available, then you need to describe it though the dedicated web forms and send the description to the MIS metadata manager (see 3.1).

3.3.2.3.Product line

You must choose the product line to which your product specification belong. Choose among those available in the list (1).

Then click on NEXT (2) to VALIDATE and move to the next form.

Illustration 15: product specification, choose the product line

If your product line is not available there, then you need to describe it and send the description to the MyOcean product manager (see 3.2).

3.3.3.Choose ocean variables

3.3.3.1.Parameters group

Choose among parameters group from SeaDataNet the one provided by your product specification. This step is **not mandatory**.

The official list and description of the parameter group are available at:

http://www.bodc.ac.uk/data/codes_and_formats/parameter_codes/bodc_para_dict.html

Select one or several parameters in frame on the left (1), then drag and drop in the frame on the right (2), or use the double arrows (3). You can remove selected parameters group the same way.

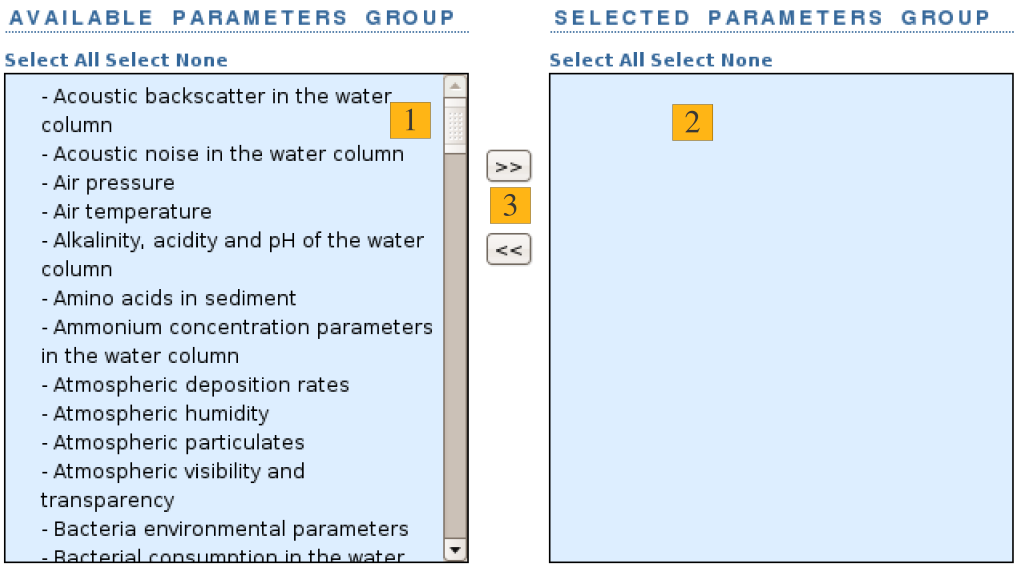

Illustration 16: choose SeaDataNet/BODC parameters (not mandatory)

3.3.3.2.Extended CF parameters

Choose among parameters group from CF the one provided by your product specification. This step is **mandatory**.

Select one or several parameters in frame on the left (1), then drag and drop in the frame on the right (2), or use the double arrows (3). You can remove selected parameters group the same way.

You may notice that some of the parameters are not identified as CF parameters (4). They are under validation process to be integrated in the CF standards.

The list of official CF names is available in "http://cf-pcmdi.llnl.gov/documents/cf-standard-names/". If one of those provided by your product specification is neither available in the CF standard or in the provided MyOcean extensions, then you can request a new MyOcean extension at the MIS metadata manager (mis.operation@myocean.eu).

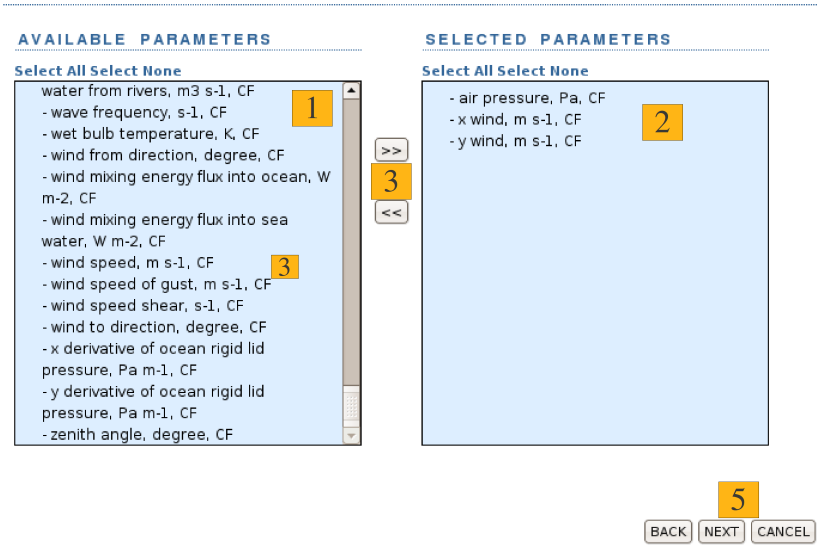

Illustration 17: Choose the CF parameters (mandatory)

Then click on NEXT (5) to VALIDATE and move to the next form.

3.3.4.Product specification description

The general form is divided into 5 parts [General Information, What?, Where?, When?, Process/Update] which can be shown or hidden by clicking on the 'v' or '^' sign on the right of the section title.

3.3.4.1.General information

The **'profile'** defines the 'visibility' of your description. When you (as a PC or PC product manager) describe a product specification, it is visible in a working copy of the catalogue (sandbox).

If your product specification is for an external product (listed in the EPST), then choose 'sandboxexter'.

If your product specification is for an intermediate product (liste in the IPST), then choose 'sandboxinter'.

The **product status** is among :

- *underDevelopment* : for products under demonstration
- *completed* : for operational products
- *obsolete* : for retired products.

The **'product label'** contains an understandable title for the current product.

The **'preview URL'** is a Hyperlink to a small picture (about 200*200 px) representing the current product. You can choose and upload one as described in page 17.

3.3.4.2. Details

The **'MIS product name'** is the “MIS product name” given in the EPST document.

The **'Customer Product name'** is the name of the product for external users. This name is given in the EPST document.

The **'Product Type'** is chosen among a list of high level categories (in-situ data, remote-sensing data, forcing field, ocean forecasting model).

The **'Output type'** is the format of the observation features handled in the product (there are taken from CSML definitions).

The **'overview'** is a piece of text you can type in a small html editor. The overview should contain:

- short description
- general information
- processing information
- description of observation methods / instruments
- Quality / Accuracy / Calibration information
- Suitability, Expected type of users / uses
- References

If relevant, each section has to be described.

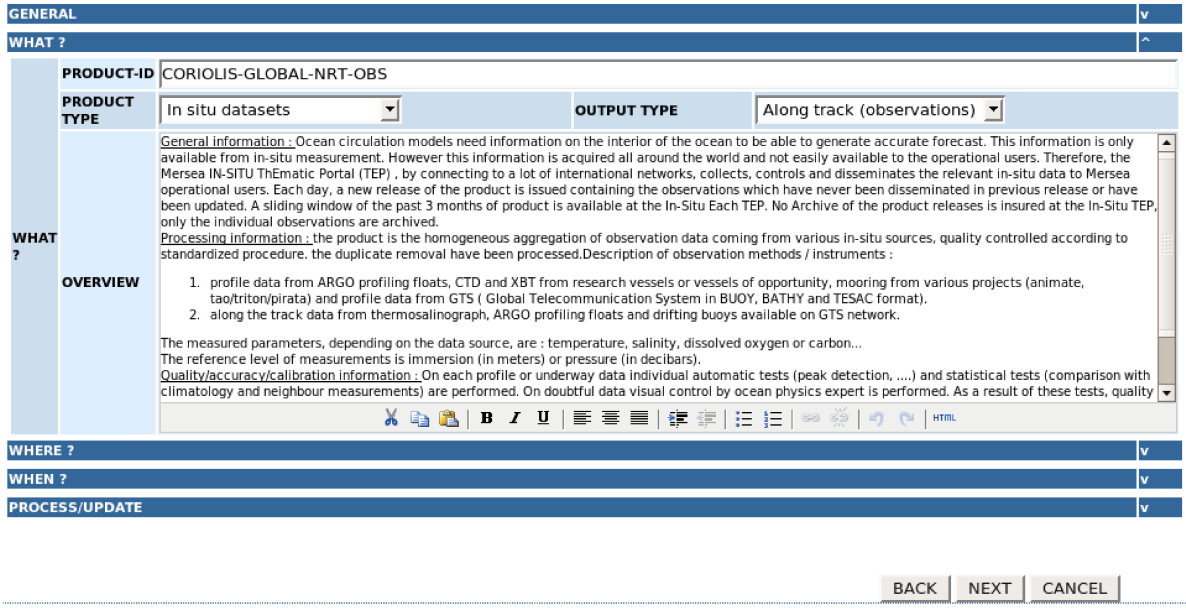

Illustration 18: product specification description

The total length of the overview should not exceed 500 words. Then length of the general information paragraph should not exceed 20 words.

The **'Area Of Benefit'** is the domains which are intended to be users of the current product specification (search and rescue, seasonal forecasting, ...). Several items can be selected here :

- area-1: Marine safety
- area-2: Marine Resources
- area-3: Marine and Coastal Environment
- area-4: Climate and Seasonal

3.3.4.3. Where ?

The **'Geographical Coverage'** is filled with the Southern, Northern, Western and Eastern most limits in latitude, longitude of the current products. If the product does not exactly match a latitude x longitude bounding box, then the best possible encompassing box is used.

The **'Geographical Scale'** is chosen among a short list of scales:

- global scale (global ocean)
- Regional scale (ocean basin...)
- Local scale (coastal areas..)

The **'Spatial resolution'** is expressed in units of distance (degrees or kilometres).

The **'available areas'** are the reference areas of the MyOcean project for which the current product is intended. One or several areas can be chosen.

The **'vertical scale'** depends on the part of vertical dimension considered in the product (water column, ocean surface or atmosphere).

The **'vertical coverage'** exactly tells what part of the vertical dimension is considered. The units are metres and positive is above the ocean. The sea surface is referenced as [min = 0, max = 0].

The **'vertical levels'** are the list of the vertical levels provided in the product. The lowest is first, the highest is last. The levels are in meters (positive above the sea surface, sea surface =0). Each level is separated by ','. For exemple : “-4000, -3500, -3000, -2500, -2000, -1800, ... -10, -5”.

3.3.4.4.When ?

The **'temporal coverage'** is filled with the start date and stop date of the product.

The Stop date can be left empty (“”) if the dataset is currently updated.

The **'sliding window'** accurately defines the time period which is processed at every update.

This is defined by :

- the starting time of update expressed as a relative time compared to the time of process (t_0) . The relative time is coded as a duration in ISO8601 between the starting time and time of process. For example : 1 month before t_0 is 'P1M'. 2 days before t_0 is 'P2D', ...
- the end time of the updated period is expressed as a relative time compared to the time of process (t_0). The relative time is coded as a duration in ISO8601 between the end time and time of process. For example : 1 day before t_0 (observations) is '-P1D'. 2 weeks after t_0 is 'P2W', ...

The **'Temporal resolution'** is a free text, like : daily, twice daily, monthly, ...

The **'Temporal Scale'** is the high level time scale of the current product (climatological, delayed mode, near real time ...).

Label	**Observed time period, update frequency**
Climatological	Updated annually or less frequently
Delayed mode	Updated weekly to n-monthly
Near Real Time	Updated daily to n-daily
Real Time	Updated hourly
Forecast	Future

Table 1: temporal scales

3.3.4.5.Processing / update information

The **'Updated'** field contains the frequency of the product updates.

When you have filled out or updated each fields of the web form, you can validate and move on to the NEXT form .

3.3.5. Delivery information

The delivery information section describes the different way of accessing the product (download or viewing).

In this forms you have as many frames as the number of servers you selected in the first web form (see 3.3.2.2). You must have as many frame as datasets * way of accessing the datasets for the current product specification. For example :

The global ocean forecast product specification is delivered in regional and global datasets. Let's say: global ocean, atlantic ocean, pacific ocean, indian oceans. Each dataset is delivered for, let's say: basic download (ftp), advanced download (opendap), subsetting download (motu) and viewing (ogc/wms). Then you should have 4 datasets * 4 access points = 16 frames to fill in.

Number	**Dataset**	**Access point**
1	Global	Ftp, netCDF files
2	Atlantic ocean	Ftp, netCDF files
3	Indian ocean	Ftp, netCDf files
4	Pacific ocean	Ftp, netCDF files
5	Global	Opendap, best estimate
6	Atlantic Ocean	Opendap, best estimate
...		
9	Global Ocean	MOTU, best estimate
...		
13	Global Ocean	NcWMS, best estimate
...		
16	Pacific Ocean	NcWMS, best estimate

Table 2: product access points examples

For each, you'll have to give details.

The **'URL complement'** is the extra URL path to be appended after the base URL (already selected in 3.3.2.2) in order to access the product. The “base URL + complement URL” must match a web page or forms which can be displayed in a browser.

For example :

Server type	Base URL	Complement URL	Test it !
MOTU	http://atoll.mercator-ocean.fr/motu-mercator-myocean/Myocean	?action=productdownloadhome&service=myocean&product=dataset-psy3v2-pgs-glo-myocean-bestestimate	GO
OpeNDAP	http://visi1-tds-tomcat.ifremer.fr/thredds/dodsC/	METNO-ARC-SST-L4-NRT-OBS_FULL_TIME_SERIE.html	GO
FTP	ftp://ftp.ifremer.fr/	ifremer/coriolis/mersea/	GO
NcWMS	http://visi1-tds-tomcat.ifremer.fr/thredds/wms/	METNO-ARC-SST-L4-NRT-OBS_FULL_TIME_SERIE?service=WMS&request=GetCapabilities	GO

Table 3: URL complement definition examples

You should test your data access with the button **'test it'**.

The '**estimated volume**' is free text roughly indicating the volume of the datasets per unit (indicate the unit, e.g. per day, per hour and parameter, per week, vertical level and parameter, ...) in the format of the server (netcdf, opendap, images, ...). For example : for one week of daily mean forecast, one parameter, one vertical level, for the whole geographical area, the volume of the file to be downloaded will be 30Mo.

The '**access condition**' describes special licence or authorization needs. The e-mail address or web site used to register should be written here. If there is no access restriction just type 'free'. MyOcean products should all mention "free" from V1 on (from October 2010 on) but some specificity can be mentioned there, for example : "dedicated to standard+ users".

The '**delivery information**' gives additional information on the product access (for example about the temporal window available, about the dataset organization : daily files ...). The length of this description should not exceed 25 words.

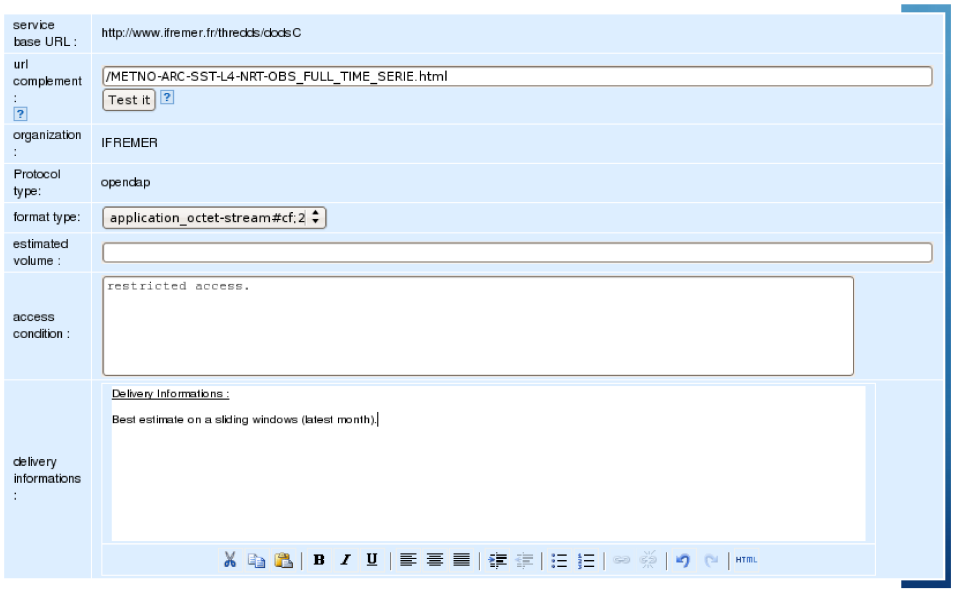

Illustration 19: product access point (delivery information)

3.3.6.Product relations

For your product specification, you must define which other product are used as *input* or for *validation*.

First you must choose the product which is in relation with your product (1) and which type of relation this product has with yours : upstream if it is an input for production, validation if it is used as an input for validation (2).

Then select it (3).

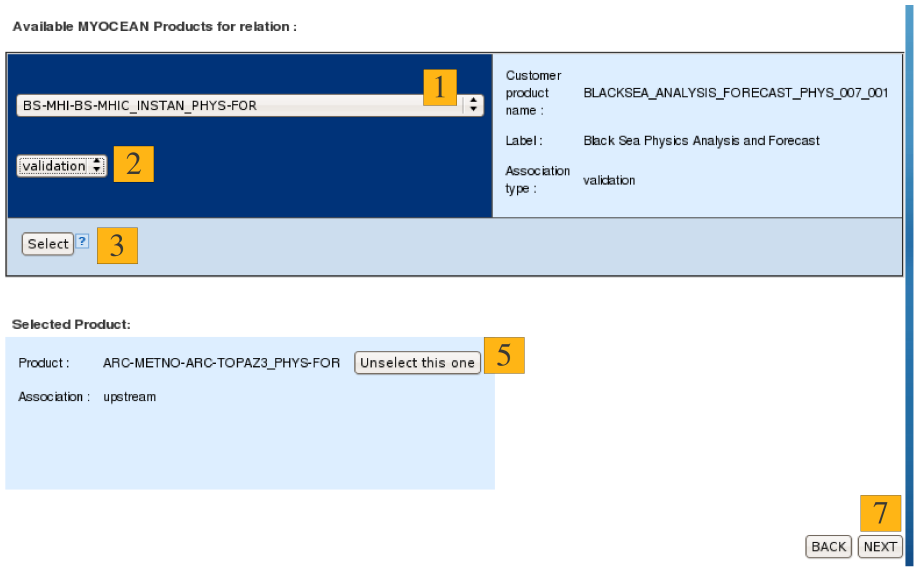

Illustration 20: product relationship (upstream and validation) definition

This will add a line (4) which may be unselected if needed (5).

When all the relationship of your product specification with other products are registered, then you can click on NEXT (6).

3.3.7.Related documentation

Documentation about the product can be made available here (user's manual, detailed processing description, quality assessment method and reports, related papers...)

For each document, you will have to fill in three fields:

The '**title**' of the document.

The '**description**' of the content of the document.

The '**date**' of publication of the document.

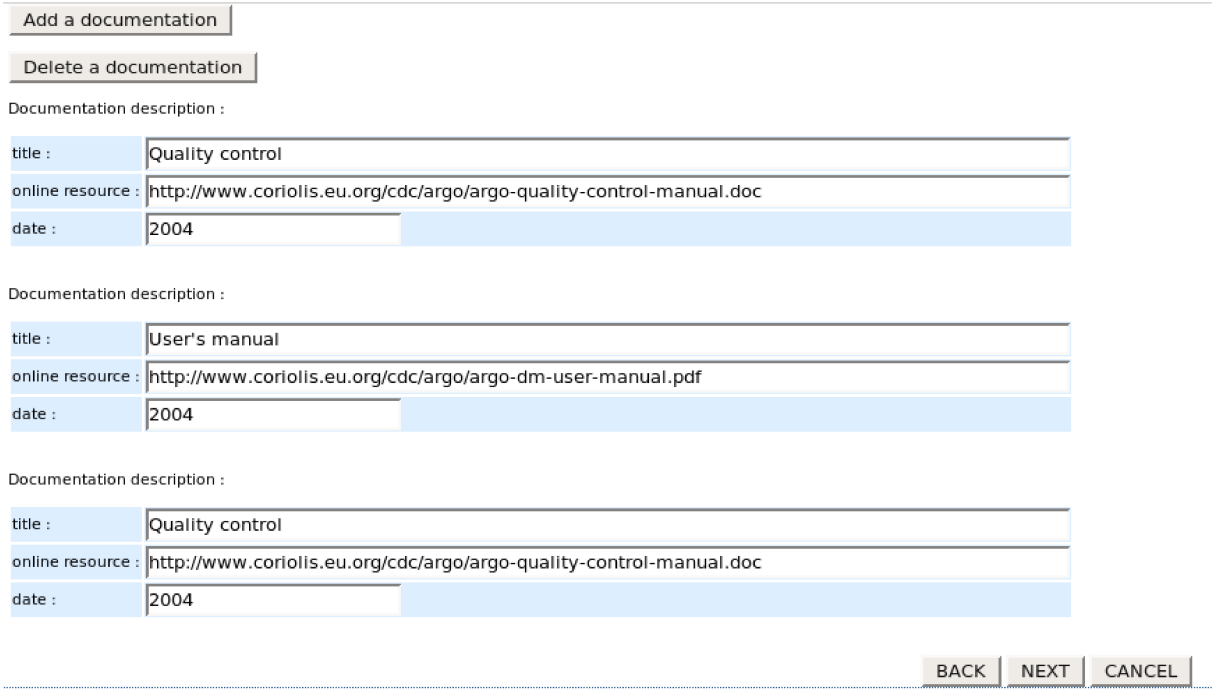

Illustration 21: product specification, external documentation

Important : One of the manual must be the official myOcean user's manual for this product. The title of this document must be “MyOcean <MIS product name> User's manual” where <MIS product name> is as defined in the EPST/IPST.

3.3.8.PREVIEW AND SAVE Your product specification description

You are now done with filling out the web forms. You can now save the product's metadata into an ISO19139 XML file (click DOWNLOAD).

You can also click on the “PREVIEW” button in order to preview your product description in a new window and validate it before you send by email to your PC product manager or to the catalogue manager. Note that the preview is the same view as the one in the catalogue.

Once this XML product description file is saved and validated, you need to send it to the catalogue manager in WP17 (catalogue-manager@myocean.eu.org) who proceed to the overall validation of the product description file to be inserted in the catalogue. Your created or updated product description will then be published in an un-official catalogue (sandbox). Periodically, the un-official catalogue will be moved to official catalogue after validation by the project.

As soon as your product has been updated in the catalogue, you and your WP leader will be notified by email.

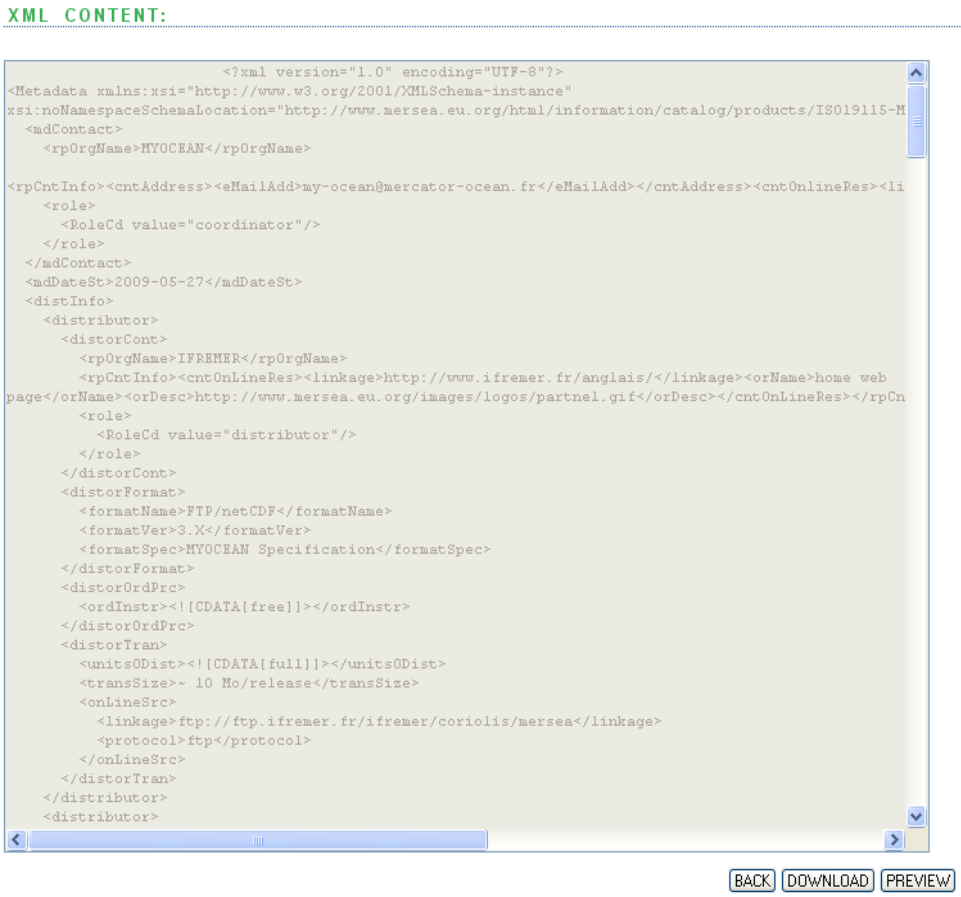

Illustration 22: product specification, preview and download your description

4.ANNEXE A

MOTU server :

protocol	motu-rest
format	application_x-netcdf
function	download
resource	http://atoll.mercator-ocean.fr/mis-gateway-servlet/Motu

THREDDS Data Server :

Protocol	http
format	application_xml#thredds
function	discovery
resource	http://www.ifremer.fr/thredds3/

THREDDS Data Server / OPeNDAP service :

protocol	opendap
format	application_octet-stream#cf
function	download
resource	http://www.ifremer.fr/thredds3/dodsC/

THREDDS Data Server / WMS service :

protocol	wms
format	image_gif image_jpeg image_png application_vnd.google-earth.kmz
function	view
resource	http://www.ifremer.fr/thredds/wms/

FTP server providing netCDF/CF files :

protocol	ftp
format	application_x-netcdf
function	download
resource	ftp://eftp.ifremer.fr

Static viewer :

protocol	http
format	text_html
function	view
resource	http://www.imc-it.org/progetti/mfstep/Forecast/bulletin.htm

E-mail :

protocol	smtp
format	multipart_mixed
function	invoke
resource	mailto:operation.mis@myocean.eu

5. ANNEXE B, ORGANIZATION CODES FOR SERVICE IDS

ACRI

AU

BROCKMANN

BSH

CEFAS

CLS

CMCC

CMR

CNR

CNRS

CSIC

DFO

DMI

DTUAQUA

DTUSPACE

ECMWF

EDISOFT

ENEA

FMI

HCMR

HRW

IASAUAT

IFMGEOMAR

IFREMER

IMR

IMS-METU

INGV

INRH

IOBAS

IOLR

ISPRA

IST

JRC

KNMI

MERCATOR

METEOFRANCE

METNO

MHI_NASU

MIG

MSI

NERC

NERSC

NIBMBS

NIERSC

NIMRD

NIVA

OC-UCY

OGS

PML

PUERTO

RBINS_MUMM

SMHI

STARLAB

SYKE

TECHWORKS

UKMETOFFICE

UL

UMT_IOI_POU

UOP

UREAD

USAM

6.ANNEX C : PROTOCOL CODES FOR SERVICES IDS

MOTU

FTP

DAP

WMS

THREDDS

HTML

MAIL

7.ANNEX D : PRODUCT MANAGERS

see OPM documentation.

affiliation	name	e-mail
MyOcean, WP17	Crosnier, Laurence	catalogue-manager@myocean.eu.org
Global Ocean MFC	<To Be Defined>	<To Be Defined>
Arctic Ocean MFC	Laurent Bertino	Laurent.bertino@nersc.no
Baltic Sea MFC	<To Be Defined>	<To Be Defined>
Atlantic-European North West Shelf- Ocean MFC	Niall Mc Connel	myo-products@metoffice.gov.uk
Atlantic -Iberian Biscay Irish-Ocean MFC	<To Be Defined>	<To Be Defined>
Mediterranean Sea MFC	<To Be Defined>	<To Be Defined>
Black Sea MFC	Yuriy Ratner	yubrat@gmail.com
Sea Level TAC	Yannis Faugère Sylvie Labroue	yannis.faugere@cls.fr sylvie.labroue@cls.fr(from Jan2011 on)
Ocean Colour TAC	Rosalia Santoleri	r.santoleri@isac.cnr.it
Sea Surface Temperature TAC	<To Be Defined>	<To Be Defined>
Sea Ice and Wind TAC	Frode Dinessen	siwtac-prod@met.no
In-Situ TAC	Sylvie Pouliquen	Sylvie.pouliquen@ifremer.fr